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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/517,318	03/09/2005	Kinshiro Naito	P26399	6724
7055 7590 03/23/2007 GREENBLUM & BERNSTEIN, P.L.C.			EXAMINER	
1950 ROLAND	CLARKE PLACE		LUK, EMMANUEL S	
RESTON, VA 20191			ART UNIT	PAPER NUMBER
			1722	
SHORTENED STATUTOR	Y PERIOD OF RESPONSE	NOTIFICATION DATE	DELIVERY MODE	
3 MO	NTHS	03/23/2007	ELECTRONIC	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

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gbpatent@gbpatent.com pto@gbpatent.com

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		Application No.	Applicant(s)			
		10/517,318	NAITO ET AL.			
	Office Action Summary	Examiner	Art Unit			
		Emmanuel S. Luk	1722			
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) 又	Responsive to communication(s) filed on 27 Fe	ebruary 2007.				
•—	This action is FINAL . 2b)⊠ This action is non-final.					
3)[Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Dispositi	on of Claims					
5)□ 6)⊠ 7)□	Claim(s) 1-17 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) 1-17 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or	·				
Application Papers						
10)	The specification is objected to by the Examiner The drawing(s) filed on is/are: a) acce Applicant may not request that any objection to the o Replacement drawing sheet(s) including the correcti The oath or declaration is objected to by the Ex	epted or b) objected to by the Edrawing(s) be held in abeyance. See on is required if the drawing(s) is obj	ected to. See 37 CFR 1.121(d).			
Priority u	ınder 35 U.S.C. § 119					
12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority documents have been received. 2. ☐ Certified copies of the priority documents have been received in Application No 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
Attachmen		·	· · · · · · · · · · · · · · · · · · ·			
2) Notice	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date 2/07:7/05:9/06;3/05	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa	te			

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 4, 13-17 are rejected under 35 U.S.C. 102(b) as being anticipated by Keyes (3710666).

Keyes teaches the die body 25 with die hole 26, lower portion of the die hole forming a discharge hole 13, 27, annular peripheral groove 28 and injection port 30, the cross-sectional area of the injection port is smaller than the peripheral groove, see Fig. 2, 4, and the die holder can be 11, 41.

3. Claims 4 and 6-8 are rejected under 35 U.S.C. 102(b) as being anticipated by JP 2000-051966.

JP '966 teaches the die body 6, die holder 8, negative pressure generator via the downwardly facing inflow ports 3, the die holder having the fluid supply hole 9, 13.

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and

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the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

- 5. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
 - 1. Determining the scope and contents of the prior art.
 - 2. Ascertaining the differences between the prior art and the claims at issue.
 - 3. Resolving the level of ordinary skill in the pertinent art.
 - 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 6. Claims 5, 9-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Keyes in view of Bezama (5907985).

Keyes fails to teach an outer piece fitted into the through hole or hole-forming tool that is formed on the inner peripheral surface of the die body, or seal.

Bezama teaches a die body 38 that is the support bushing having a through and discharge hole 36, and piece having the discharge hole/air injection hold 10, that is fitted within the die body.

It would have been obvious for one of ordinary skill in the art to modify Keyes with the die body configuration as taught by Bezama because it allows a better seal (c. 3, I. 18-20).

7. Claims 1-3 are rejected under 35 U.S.C. 103(a) as being unpatentable over JP 2000-051966.

JP '566 teaches a die body 8, 10, 11, a core within the body 6 that is within the die body and having a discharge hole, core having a plurality of fluid injection ports 3

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that are obliquely injecting fluid downward, the die body providing an inflow port 13 with an outer peripheral groove 9. As seen in the figures, the through hole and the discharge hole are all tapered. It would have been obvious to one of ordinary skill in the art to recognize the elements of 8, 10, and 11 can be considered as a single element of the die body.

It would have been obvious for one of ordinary skill in the art to modify JP with the core being made from resin as an alternative building material.

Conclusion

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Emmanuel S. Luk whose telephone number is (571) 272-1134. The examiner can normally be reached on Monday-Fridays from 9 to 5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Yogendra N. Gupta can be reached on (571) 272-1316. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

EL

TIM HEITBRINK
PRIMARY EXAMINER
GROUP 130-1102

3-19-07